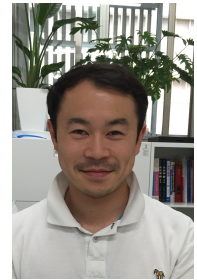


1. CURRICULUM VITAE

Hitoshi Takizawa



Personal Information:

Family name: Takizawa
Forenames: Hitoshi
Academic title: Ph.D.
Nationality: Japanese

Position and Work address:

Professor and Vice Director
International Research Center for Medical Sciences, Kumamoto University
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Education:

- 2003 April - 2007 Mar. Department of Immunology, Institute of Medical Science,
Graduate School of Medical Science, The University of Tokyo, Tokyo, Japan
Awarded the degree of PhD in Medical Science
Advisor: Prof. Dr. Kiyoshi Takatsu
- 2001 April - 2003 Mar. Department of Immunology, Institute of Medical Science,
Graduate School of Medical Science, The University of Tokyo, Tokyo, Japan
Awarded the degree of Master in Medical Science
Advisor: Prof. Dr. Kiyoshi Takatsu
- 1997 April - 2001 Mar. Department of Bioscience, Tokyo Institute of Technology, Tokyo, Japan
Awarded the degree of BSc in Bioscience
Advisor: Prof. Dr. Yuji Saito

Research training:

- 2009 Sept. - 2012 Jan. Postdoctoral Research Fellow
Division of Experimental Hematology, University Hospital Zürich, Switzerland
Advisor: Prof. Dr. med. Markus G. Manz
- 2007 April - 2009 Aug. Postdoctoral Research Fellow
Hematopoiesis Laboratory, Institute for Research in Biomedicine, Switzerland
Advisor: Dr. med. Markus G. Manz

Academic appointments:

- 2017 Jan. - Professor and Vice Director
International Research Center for Medical Sciences, Kumamoto University, Japan
- 2015 Jan. - Associate Professor
International Research Center for Medical Sciences, Kumamoto University, Japan
- 2015 Jan. - 2015 Dec. Visiting Scientist
Division of Experimental Hematology, University Hospital Zürich, Switzerland
- 2012 Feb. - 2014 Dec. Junior group Leader
Division of Experimental Hematology, University Hospital Zürich, Switzerland
- 2009 April - 2011 Mar. Research Fellowship for Research Abroad, Japanese Science for the Promotion of
Science
- 2007 April - 2008 Mar. Research Fellowship, Japanese Science for the Promotion of Science
- 2006 April - 2007 Mar. Research Fellowship for Young Scientist, Japanese Science for the Promotion of
Science

Honors and Awards:

2017-2019	TaNeDS, Daiichi-Sankyo
2017-2018	Princess Takamatsu Cancer Research Fund
2017-2018	The Uehara Memorial Foundation
2017-2018	Takeshi Nagao Intractable Diseases Research Fund
2017-2018	Senri Life Science Foundation
2017-2018	The Ichiro Kanehara Foundation for the Promotion of Medical Sciences and Medical Care
2017-2020	Takeda Science Foundation
2017-2018	The Cell Science Research Foundation
2016-2017	SENSHIN Medical Research Foundation
2016-2017	Astellas Foundation for Research on Metabolic Disorders
2016-2017	Mochida Memorial Foundation
2015-2016	Kowa Life Science Foundation
2015-2016	The Tokyo Biochemical Research Foundation
2015-2016	KANAE Foundation for the Promotion of Medical Science
2015-2016	Friends of Leukemia Research Fund
2015-2018	Takeda Science Foundation
2013 April	Bruno Speck Award, Basel Stem Cell Network 2013
2013 April	Basic Science Award, 39 th Annual meeting of the European Group For Blood and Marrow Transplantation
2009 April -2011 Mar.	Research Fellowship for Research Abroad, Japanese Science for the Promotion of Science
2009 April	Young Investigator Award, 2 nd International Workshop on Humanized Mice
2007 April -2008 Mar.	Research Fellowship, Japanese Science for the Promotion of Science
2006 April -2007 Mar.	Research Fellowship for Young Scientist, Japanese Science for the Promotion of Science
2004 Mar.	Young Investigator Award, 13 th Molecular Immunology Forum Tokyo

Professional organizations and societies:

International society for experimental hematology (ISEH), International society for stem cell research (ISSCR), American society for hematology (ASH), Japanese society for hematology (JSH), Japanese society for Immunology (JSI)

Meeting organization

2nd Kumamoto IRCMS symposium and 17th Kumamoto AIDS seminar, 2016, 31th Oct- 2nd Nov 2016, Kumamoto, Japan

2: List of accomplishments (IF, impact factor)

1. Fritsch K, Pigeot S, Bourguine PE, Feng X, Schroeder T, Martin I, Manz MG, **Takizawa H***, Engineered humanized bone organs maintain human hematopoiesis in vivo, *Exp Hematol*, in press, *correspondence., **(2.820)**
2. **Takizawa H***, Fritsch K, Kovtonyuk LV, Saito Y, Yakkala C, Jacobs K, Ahuja AK, Lopes M, Hausmann A, Hardt WD, Gomariz Á, Nombela-Arrieta C and Manz MG. Pathogen-induced TLR4-TRIF innate immune signaling in hematopoietic stem cells promotes proliferation but reduces competitive fitness. *Cell Stem Cell*, 2017 Aug 3;21(2):225-240.e5. doi: 10.1016/j.stem.2017.06.013. Epub 2017 Jul 20. *correspondence., **(22.394)**
3. **Takizawa H*** and Manz MG. Impact of inflammation on early hematopoiesis and the microenvironment. *Int. J. Hematol.*, 2017 May 30. doi: 10.1007/s12185-017-2266-5., *correspondence., **(1.610)**
4. Kovtonyuk LV, Fritsch K, Feng X, Manz MG, **Takizawa H***. Inflamm-Aging of Hematopoiesis, Hematopoietic Stem Cells and the Bone Marrow Microenvironment. *Frontiers in Immunol*, 2016, Nov 14;7:502. eCollection 2016., *correspondence., **(6.429)**
5. Rauch PJ, Ellegast JM, Widmer CC, Fritsch K, Goede JS, Valk PJ, Löwenberg B, **Takizawa H**, Manz MG. MPL expression on AML blasts predicts peripheral blood neutropenia and thrombocytopenia. *Blood*. 2016 Aug 29. pii: blood-2016-04-711986., **(13.164)**
6. Kovtonyuk LV, Manz MG, **Takizawa H***. Enhanced thrombopoietin but not G-CSF receptor stimulation induces self-renewing hematopoietic stem cell divisions in vivo. *Blood*, 2016, Jun 23;127(25):3175-9., *correspondence., **(13.164)**
7. Ziegler P, Boettcher S, **Takizawa H**, Manz MG, Brümmendorf TH. LPS-stimulated human bone marrow stroma cells support myeloid cell development and progenitor cell maintenance. *Ann Hematol*. 2016 Jan;95(2):173-8. doi: 10.1007/s00277-015-2550-5. Epub 2015 Nov 11., **(3.083)**
8. Kovtonyuk LV, **Takizawa H**. Mouse genetic background and human hematopoietic stem cells biology; tips for humanization. **Humanized Mice for HIV Research, Springer, 2015, No IF**
9. Nakamura-Ishizu A, **Takizawa H**, Suda T. The analysis, roles and regulation of quiescence in hematopoietic stem cells. *Development*, 2014 Dec 15;141(24):4656-4666. **(6.462)**
10. Lundberg P[#], **Takizawa H[#]**, Kubovcakova L[#], Guo G, Hao-Shen H, Dirnhofer S, Orkin SH, Manz MG, Skoda RC. Myeloproliferative neoplasms can be initiated from a single hematopoietic stem cell expressing JAK2-V617F. *J Exp Med.*, 2014 Oct 20;211(11):2213-30., [#]equal contribution, **(12.515)**
11. Berres ML, Lim KP, Peters T, Price J, **Takizawa H**, Salmon H, Idoyaga J, Ruzo A, Lupo PJ, Hicks MJ, Shih A, Simko SJ, Abhyankar H, Chakraborty R, Leboeuf M, Heym KM, Bigley V, Collin M, Manz MG, McClain K, Merad M, Allen CE. *BRAF-V600E* Expression in Precursor Versus Differentiated Dendritic Cells Defines Clinically Distinct

- LCH Risk-Groups. *J Exp Med.*, 2014 Apr 7;211(4):669-83. doi: 10.1084/jem.20130977. Epub 2014 Mar 17., (12.515)
12. Strassberger V, Gutbrodt KL, Krall N, Roesli C, Takizawa H, Manz MG, Fugmann T, Neri D.
A comprehensive surface proteome analysis of myeloid leukemia cell lines for therapeutic antibody development. *J Proteomics*, 2014 Jan 30;99C:138-151. doi: 10.1016/j.jprot.2014.01.022., (3.888)
 13. Wueest S, Mueller R, Blüher M, Item F, Chin AS, Wiedemann MS, Takizawa H, Kovtonyuk L, Chervonsky AV, Schoenle EJ, Manz MG, Konrad D.
Fas (CD95) expression in myeloid cells promotes obesity-induced muscle insulin resistance. *EMBO Mol Med.*, 2014 Jan 1;6(1):43-56., (8.665)
 14. Scotti C[#], Piccinini E[#], Takizawa H[#], Todorov A, Bourguine P, Papadimitropoulos A, Barbero A, Manz MG, Martin I.
Engineering of a functional bone organ through endochondral ossification. *Proc Natl Acad Sci U S A.*, 2013, Mar 5;110(10):3997-4002, [#]equal contribution, (9.809)
 15. Rongvaux A, Takizawa H, Strowig T, Willinger T, Eynon EE, Flavell RA, Manz MG.
Human Hemato-Lymphoid System Mice: Current Use and Future Potential for Medicine. *Ann Rev Immunol.*, 2013 Jan 16, 2013 Mar 5;110(10):3997-4002., (41.392)
 16. Boettcher S, Ziegler P, Schmid MA, Takizawa H, van Rooijen N, Kopf M, Heikenwalder M, Manz MG.
Cutting edge: LPS-induced emergency myelopoiesis depends on TLR4-expressing nonhematopoietic cells. *J Immunol.*, 2012 Jun 15;188(12):5824-8., (5.520)
 17. Takizawa H, Boettcher S, Manz MG.
Demand-adapted regulation of early hematopoiesis in infection and inflammation. *Blood.*, 2012 Mar 29;119(13):2991-3002., (9.060)
 18. Takizawa H^{*}, Manz MG.
In vivo divisional tracking of hematopoietic stem cells.
Ann N Y Acad Sci., 2012 Aug;1266(1):40-6. doi: 10.1111/j.1749-6632.2012.06500.x., ^{*}correspondence, No IF
 19. Takizawa H, Schanz U, Manz MG.
Ex vivo expansion of hematopoietic stem cells: mission accomplished? *Swiss Med Wkly.*, 2011 Dec 29;141:w13316., (1.895)
 20. Schmid MA, Takizawa H, Baumjohann DR, Saito Y, Manz MG.
Bone marrow dendritic cell progenitors in mice sense pathogens via Toll-like receptors and subsequently migrate to inflamed lymph nodes. *Blood.*, 2011 Nov 3;118(18):4829-40., (9.898)
 21. Strowig T, Rongvaux A, Rathinam C, Takizawa H, Borsotti C, Philbrick W, Eynon EE, Manz MG, Flavell RA.
Transgenic expression of human signal regulatory protein alpha in Rag2^{-/-}gammac^{-/-} mice improves engraftment of human hematopoietic cells in humanized mice.
Proc Natl Acad Sci U S A., 2011 Aug 9;108(32):13218-23., (9.681)
 22. Takizawa H, Manz MG.

Dynamic regulation of hematopoietic stem cell cycling.

Cell Cycle., 2011 Jul 15;10(14):2246-7., (5.359)

23. **Takizawa H**[#], Regoes RR[#], Boddupalli CS, Bonhoeffer S, Manz MG.
Dynamic variation in cycling of hematopoietic stem cells in steady state and inflammation.
J Exp Med., 2011 Feb; 14;208(2):273-84., [#]equal contribution, (13.853)
24. Rongvaux A, Willinger T, **Takizawa H**, Rathinam C, Auerbach W, Murphy AJ, Valenzuela DM, Yancopoulos GD, Eynon EE, Stevens S, Manz MG, Flavell RA.
Human thrombopoietin knockin mice efficiently support human hematopoiesis in vivo.
Proc Natl Acad Sci U S A., 2011 Feb 8;108(6):2378-83., (9.681)
25. Willinger T, Rongvaux A, **Takizawa H**, Yancopoulos GD, Valenzuela DM, Murphy AJ, Auerbach W, Eynon EE, Stevens S, Manz MG, Flavell RA.
Human IL-3/GM-CSF knock-in mice support human alveolar macrophage development and human immune responses in the lung. ***Proc Natl Acad Sci U S A.***, 2011 Feb 8; 108(6):2390-5., (9.681)
26. **Takizawa H**[#], Nishimura S[#], Nishikii H, Takayama N, Oda A, Kakinuma S, Morita Y, Yamazaki S, Tamura N, Goto S, Sawaguchi A, Manabe I, Takatsu Ki, Nakauchi H, Takaki S, Eto K.
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27. Legrand N, Ploss A, Balling R, Becker PD, Borsotti C, Brezillon N, Debarry J, de Jong Y, Deng H, Di Santo JP, Eisenbarth S, Eynon E, Flavell RA, Guzman CA, Huntington ND, Kremendorf D, Manns MP, Manz MG, Mention JJ, Ott M, Rathinam C, Rice CM, Rongvaux A, Stevens S, Spits H, Strick-Marchand H, **Takizawa H**, van Lent AU, Wang C, Weijer K, Willinger T, Ziegler P.
Humanized mice for modeling human infectious disease: challenges, progress, and outlook. ***Cell Host Microbe.***, 2009 Jul 23;6(1):5-9., (13.021)
28. **Takizawa H**, Eto K, Yoshikawa A, Nakauchi H, Takatsu K, Takaki S.
Growth and maturation of megakaryocytes is regulated by Lnk/Sh2b3 adaptor protein through crosstalk between cytokine- and integrin-mediated signals. ***Exp Hematol.***, 2008 Jul; 36(7): 897-906, (3.203)
29. **Takizawa H**, Manz MG.
Macrophage tolerance: CD47-SIRP-alpha-mediated signals matter. ***Nat Immunol.***, 2007 Dec; 8(12): 1287-9., (26.218)
30. **Takizawa H**, Kubo-Akashi C, Nobuhisa I, Kwon SM, Iseki M, Taga T, Takatsu K, Takaki S.
Enhanced engraftment of hematopoietic stem/progenitor cells by the transient inhibition of an adaptor protein, Lnk. ***Blood.***, 2006 Apr 1; 107(7): 2968-75, (10.370)
31. Kubo-Akashi C, Iseki M, Kwon SM, **Takizawa H**, Takatsu K, Takaki S.
Roles of a conserved family of adaptor proteins, Lnk, SH2-B, and APS, for mast cell development, growth, and functions: APS-deficiency causes augmented degranulation and reduced actin assembly. ***Biochem. Biophys. Res. Commun.***, 2004 Mar 5; 312(2): 356-62, (2.904)